AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- (Currently Amended) An integrated guidance system comprising:
 - a position determination system adapted for determining a current position;
- a differential global position determination system adapted for using a differential correction process to correct errors, wherein a differential correction may be stored in an electronic file and accessed later or said differential correction may be applied in real time;
- a lightbar device adapted for providing a visual representation of a deviation of said current position from a desired path to guide movement along said desired path;
- a data input device for scrolling, selecting, and editing operations, including configuring said position determining system with a menu, and wherein said data input device comprises a first button, a second button, and a third button:
- a display device for displaying text, said menu and graphics, said text, said menu, and said graphics adapted to be viewable under various light conditions, wherein an operator is able to vary the contrast and brightness of said text, said menu, and said graphics by using buttons to interact with a user interface of said integrated guidance system, and wherein said first button, said second button, and said third button facilitate interacting with a plurality of available functions displayed on said display device, and wherein said display device is configured for presenting a perspective view graphic to assist in guidance along with first text that describes said desired path and second text that describes deviation from said desired path;

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a processor adapted for facilitating user interaction by integrating operation of said position determination system, said lightbar device, said data input device, and said display

device; and

a housing enclosing said position determination system, said lightbar device, said data

input device, said display device and said processor, wherein said housing has a first wing-

shaped portion and a second wing-shaped portion configured to protect a cable connector

extending from said housing, wherein said light bar and said display device are positioned on a

front of said housing, and wherein said first button, said second button, and said third button of

said data input device are positioned on a top surface of said housing for convenient access by an

operator of said integrated guidance system, wherein said top surface of said housing is

substantially orthogonally adjacent to said front of said housing, and wherein said first button is

larger than said second button and said third button to reduce the need for visual assistance by

said operator to distinguish said first button, said second button, and said third button.

2. (Original) The integrated guidance system as recited in Claim 1 wherein said position

determination system comprises:

a Global Positioning System (GPS) antenna; and

a GPS receiver.

3. (Original) The integrated guidance system as recited in Claim 2 wherein said GPS

antenna is positioned externally and separately relative to said GPS receiver.

(Cancelled)

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5 (Original) The integrated guidance system as recited in Claim 1 wherein said lightbar device comprises a plurality of lights that are adapted to emit a light pattern that indicates said

deviation.

6. (Original) The integrated guidance system as recited in Claim 5 wherein said plurality of

lights are spaced apart and are aligned in a row, and wherein said light pattern if formed

selectively illuminating particular ones of said plurality of lights.

7. (Original) The integrated guidance system as recited in Claim 5 wherein said plurality of

lights comprises a plurality of light emitting diodes (LEDs).

8. (Cancelled)

9 (Cancelled)

10 (Previously Presented) The integrated guidance system as recited in Claim 1 wherein

said display device displays said available functions in a menu-driven manner that is user

friendly.

11. (Original) The integrated guidance system as recited in Claim 1 wherein said display

device comprises a liquid crystal display (LCD).

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12. (Currently Amended) An integrated guidance system comprising:

a position determination system adapted for determining a current position;

a differential global position determination system adapted for using a differential correction process to correct errors, wherein a differential correction may be stored in an

electronic file and accessed later or said differential correction may be applied in real time:

a lightbar device adapted for providing a visual representation of a deviation of said

current position from a desired path to guide movement along said desired path;

a data input device for scrolling, selecting, and editing operations, including configuring

said position determining system with a menu, and wherein said data input device comprises a

first button, a second button, and a third button;

a display device for displaying text, said menu and graphics, said text, said menu, and

said graphics adapted to be viewable under various light conditions, wherein an operator is able

to vary the contrast and brightness of said text, said menu, and said graphics by using buttons to

interact with a user interface of said integrated guidance system, and wherein said first button,

said second button, and said third button facilitate interacting with a plurality of available

functions displayed on said display device, and wherein said display device is configured for

presenting a perspective view graphic to assist in guidance along with first text that describes

said desired path and second text that describes deviation from said desired path;

a user interface system adapted for facilitating user interaction by integrating operation of

said position determination system, said lightbar device, said data input device, and said display

device: and

a housing enclosing said position determination system, said lightbar device, said data

input device, said display device, and said user interface, wherein said housing has a first wing-

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shaped portion and a second wing-shaped portion configured to protect a cable connector extending from said housing, wherein said light bar and said display device are positioned on a front of said housing, and wherein said first button, said second button, and said third button of said data input device are positioned on a top surface of said housing for convenient access by an operator of said integrated guidance system, wherein said top surface of said housing is substantially orthogonally adjacent to said front of said housing, and wherein said first button is larger than said second button and said third button to reduce the need for visual assistance by said operator to distinguish said first button, said second button, and said third button.

- 13. (Original) The integrated guidance system as recited in Claim 12 wherein said position determination system comprises:
 - a Global Positioning System (GPS) antenna; and
 - a GPS receiver
- (Original) The integrated guidance system as recited in Claim 13 wherein said GPS antenna is positioned externally and separately relative to said GPS receiver.
- (Cancelled)
- 16. (Original) The integrated guidance system as recited in Claim 12 wherein said lightbar device comprises a plurality of lights that are adapted to emit a light pattern that indicates said deviation.

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17. (Original) The integrated guidance system as recited in Claim 16 wherein said plurality of lights are spaced apart and are aligned in a row, and wherein said light pattern is formed by selectively illuminating particular ones of said plurality of lights.

18. (Original) The integrated guidance system as recited in Claim 16 wherein said plurality of lights comprises a plurality of light emitting diodes (LEDs).

19. (Original) The integrated guidance system as recited in Claim 12 wherein said user interface system comprises:

a processor; and

processor-executable instructions for implementing a user interface.

20. (Cancelled)

21. (Cancelled)

(Cancelled)

23. (Previously Presented) The integrated guidance system as recited in Claim 12 wherein said user interface system displays on said display device said available functions in a menudriven manner that is user friendly.

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- (Original) The integrated guidance system as recited in Claim 12 wherein said display device comprises a liquid crystal display (LCD).
- 25. (Currently Amended) A method of interacting with a guidance system, said method comprising:

displaying on a display device of said guidance system a plurality of available functions in a menu-driven manner that is user friendly, wherein said display device is adapted for displaying text and graphics, including configuring said guidance system with said menu, said text, said menu, and said graphics adapted to be viewable under various light conditions, wherein an operator is able to vary the contrast and brightness of said text, said menu, and said graphics by using buttons to interact with a user interface of said guidance system;

displaying on said display device a perspective view graphic to assist in guidance, first text that describes a desired path, and second text that describes deviation from said desired path; and

providing said guidance system with a data input device adapted for accessing and interacting with any one of said available functions with a minimum number of inputs and with minimum use of said inputs, wherein said data input device enables scrolling, selecting, and editing operations, said data input device comprising a first button, a second button, and a third button that facilitate interacting with a plurality of available functions displayed on said display device, and wherein said display device, said guidance system, and said data input device are integrated in a housing, wherein said housing has a first wing-shaped portion and a second wing-shaped portion configured to protect a cable connector extending from said housing, wherein said display device is positioned on a front of said housing, wherein said first button, said second

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button, and said third button of said data input device are positioned on a top surface of said housing for convenient access by an operator of said integrated guidance system, wherein said top surface of said housing is substantially orthogonally adjacent to said front of said housing, and wherein said first button is larger than said second button and said third button to reduce the

need for visual assistance by said operator to distinguish said first button, said second button, and

said third button.

(Cancelled)

(Cancelled)

28. (Currently Amended) The method as recited in Claim 25 wherein said guidance system

further comprises:

a position determination system adapted for determining a current position; and

a lightbar device adapted for providing a visual representation of a deviation of said

current position from [[a]] said desired path to guide movement along said desired path.

29. (Original) The method as recited in Claim 28 wherein said position determination system

comprises:

a Global Positioning System (GPS) antenna; and

a GPS receiver.

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 (Original) The method as recited in Claim 29 wherein said GPS antenna is positioned externally and separately relative to said GPS receiver.

(Cancelled)

(Original) The method as recited in Claim 28 wherein said lightbar device comprises a
plurality of lights that are adapted to emit a light pattern that indicates said deviation.

33. (Original) The method as recited in Claim 32 wherein said plurality of lights are spaced apart and are aligned in a row, and wherein said light pattern is formed by selectively illuminating particular ones of said plurality of lights.

- (Original) The method as recited in Claim 32 wherein said plurality of lights comprises a
 plurality of light emitting diodes (LEDs).
- (Original) The method as recited in Claim 25 wherein said display device comprises a liquid crystal display (LCD).

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